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		) near2 (informat\$6 data ))		
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		) near time\$5)		
_	67	request\$5 with ((reject\$5 deni\$5 deny\$5	USPAT	2004/06/07 17:23
		) near time\$5)		
	9	request\$5 with ((reply respon\$5) near3	USPAT	2004/06/07 17:26
		(reject\$5 deny\$5 deni\$3) near4		Į.
		(information\$3 ))	}	1
_	28	packet with ((deny denied reject\$5) near3	USPAT	2004/06/07 17:29
		information)		
_	167	packet with (respon\$5 reply\$3 ) with (deny	USPAT	2004/06/07 17:30
		denied reject\$)		
-	27	packet with (respon\$5 reply\$3 ) with (deny	USPAT	2004/06/11 18:20
		denied reject\$) with (target\$5		
		destination\$3)		
_	305	(respon\$5 reply\$3 ) with (deny denied	USPAT	2004/06/11 18:20
		reject\$) with (target\$5 destination\$3)		
-	3	( (respon\$5 reply\$3 ) with (deny denied	USPAT;	2004/06/11 18:25
		reject\$) with (target\$5 destination\$3))	US-PGPUB;	
		and (starvat\$6 with (prevent\$5 avoid\$5))	EPO; JPO;	
			DERWENT;	
		/ / AF	IBM TDB	2004/06/11 10:21
_	16		USPAT; US-PGPUB;	2004/06/11 18:21
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-	3	((starvat\$6 deadlock\$5) with (prevent\$5	USPAT;	2004/06/11 18:25
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#### LRP Reply to Vicente Balvanera

... While unemployment, **starvation** and desperation among the masses is ... In order to **avoid** confronting the weaknesses of ... possible in order to **prevent** the constituent ... www.lrp-cofi.org/PR/Arg**reply**PR64.html - 50k - Cached - Similar pages

#### Reply to

... of men, woman and children by **starvation**, why does ... such suffering, yet could no longer **prevent** such things ... the existence of such problems impossible to **avoid**. ... users.rcn.com/rostmd/winace/**reply**2jph.htm - 101k - <u>Cached</u> - <u>Similar</u> pages

#### [PDF] 1. The Assignment

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... Hence, many clients **avoid** looking past the first ... This could lead to **starvation** of certain clients ... If extenuating circumstances exist that will **prevent** you from ... www-2.cs.cmu.edu/afs/cs/academic/ class/15441-f01/www/assignments/P1/P1.pdf - Similar pages

#### [PS] A Distributed Protocol for Channel-Based

File Format: Adobe PostScript - View as Text

... blocking seems bad, we might try to **avoid** it by ... to a much more insidious form of **starvation** than that ... that one pair of processes can **prevent** matches elsewhere ... www.cs.virginia.edu/~knabe/choice.ps.gz - Similar pages

#### Symposium on the War in Afghanistan (2): Christopher Bertram

... people of Afghanistan into the prospect of mass **starvation**. ... bellum criteria are there to **prevent** recourse to ... since their purpose is to **avoid** needless recourse ... eis.bris.ac.uk/~plcdib/imprints/bertram.html - 62k - Cached - Similar pages

# IPDF] Rejoinder to Wink's Response

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... that he makes in his article, review, and **reply**. ... for nothing, then there is nothing to **prevent** people like ... one must actually carry them out to **avoid** destruction ... www.robgagnon.net/Reviews/homoWinkRejoinder.pdf - <u>Similar pages</u>

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... We also wanted to avoid any centralized arbitration ... A simple and effective mechanism to prevent starvation, without requiring ... permits a cluster to reject a probe ... pages.sbcglobal.net/barroso/ publications/ring\_coherence.pdf - Similar pages

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... still have to argue that suicide, whether to **avoid** our own misery, or to **prevent** misery and ... is a lower standard of living, or even **starvation**, then the ... www.vaz1.net/bill/anarchism/library/rg-anarcho-cap.html - 101k - <u>Cached</u> - <u>Similar pages</u>

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... them an added incentive to **avoid** such acts. ... how to silence reformists and **prevent** journalists and ... suffer severe hardship, dehydration, **starvation** and sometimes ... middleeastinfo.org/modules.php?op=modload& name=XForum&file=post&action=**reply**&fid=1&ti... - 101k - Cached - Similar pages

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Roxen Community: RFC 3241 Robust Header Compression (ROHC) over ... ... This was appropriate at a time when only one ... With the advent of IP header compression [RFC2507, RFC2509 ... likely Configure-Nak or Configure-Reject the duplicate ... community.roxen.com/developers/idocs/rfc/rfc3241.html - 39k - Cached - Similar pages

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... MAC control block containing a **Packet** Paging Request, **Packet** Access **Reject**, or **Packet** ... TBF STARTING **TIME**. ... a valid RRBP field in the RLC data block **header** (ie, is ... www.3gpp.org/ftp/tsg\_geran/WG4\_Terminal\_Testing-Radio\_Aspects/ TSGG4\_06/AgreedCRs/51010-1-424.doc - Similar pages

30.2 Headers, Keywords, and Group Parameters

... Observing **time**, user-supplied GIM offset table name ... position angle of aperture, burst noise **rejection** limit. ... in the file: SHP is science **header packet**, UDL is ... www.stsci.edu/documents/dhb/webvol2/ c05\_fosdata.fm2.html - 21k - Cached - Similar pages

Name Type Dimensions ---- HDU 1 Primary Array ...

... second data quality initialization **header** file CCG2 ... DEADTIME= 1280 / accumulator close **time** (unit=7.8125 ... NOISELM = 65535 / burst noise **rejection** limit OFFS\_TAB ... fits.gsfc.nasa.gov/samples/FOSy19g0309t\_c0f.txt - 13k - Cached - Similar pages

Trace log

... Reject (8,13) 5 905.160 BRI0-R[0013] LCP (ID=0x07) Configure-Reject (8,13 ... PPP Frame: BRI0-XMIT Size: 52/ 52 Time: 1145.250 sec ... PPP Header: Protocol = 0x0021 (IP ... www.zyxel.com/support/supportnote/ p200/support/trace.htm - 48k - Cached - Similar pages

Internet Draft H. Jamjoom KG Shin Document: draft-jamjoom ...

... Expires – October 2002 [Page 4] ICMP **Reject** August 2002 Minimum Retransmission **Time**: This field ... Internet **Header** + 64 bits of Data Datagram Similarly ... www.eecs.umich.edu/~jamjoom/publications/ draft-jamjoom-icmpreject-00.txt - 16k - <u>Cached</u> - <u>Similar pages</u>

another PPTP conntrack problem (no fix this time)

... message: another PPTP conntrack problem (no fix this **time**); Next message ... DestUnreach **packet** is built and the included **header** of the **rejected packet** is still ... lists netfilter org/pipermail/netfilter-devel/ 2003-January/010434.html - 7k - <u>Cached</u> - <u>Similar pages</u>

[PDF] CCSDS Standard Space Data Link Capabilities

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... 1 Space Data Link Security Mechanisms **Time** Codes Lossless Data ... 5 TC **Header Packet** #2 TC **Header** Pkt #3 ... termination Frame Acceptance and **Rejection** Mechanism (FARM ... sunset.usc.edu/gsaw/gsaw/2001/B2/Kazz-B2GSAW.pdf - <u>Similar pages</u>

Zvon - RFC 2402 [IP Authentication Header] - Authentication Header ...
... a packet containing an IP Authentication Header, the receiver ... SHOULD include the SPI value, date/time, Source Address ... to an SA, to speed rejection of duplicate ...
www.zvon.org/tmRFC/RFC2402/Output/chapter3.html - 38k - Cached - Similar pages

ipchains Log Format

... Time To Live, Protocol Number, Header Checksum. 32 bit Source Address. ... The header of an IP packet consists of 5 or more words of 32 bits (4 bytes) each. ... logi.cc/linux/ipchains-log-format.php3 - 24k - Cached - Similar pages

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1 Efficient at-most-once messages based on synchronized clocks

Barbara Liskov, Liuba Shrira, John Wroclawski

May 1991 ACM Transactions on Computer Systems (TOCS), Volume 9 Issue 2

Full text available: pdf(1.33 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

This paper describes a new at-most-once message passing protocol that provides guaranteed detection of duplicate messages even when the receiver has no state stored for the sender. It also discusses how to use at-most-once messages to implement higher-level primitives such as at-once-remote procedure calls and sequenced bytestream protocols. Our performance measurements indicate that at-most-once RPCs can provide at the same cost as less desirable forms of RPCs that do not guarantee at-mos ...

**Keywords**: at-most-once message passing, message-passing protocols, remote procedure calls, synchronized clocks

2 Efficient at-most-once messages based on synchronized clocks

B. Liskov, L. Shrira, J. Wroclawski

August 1990 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols, Volume 20 Issue 4

Full text available: pdf(1.16 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper describes a new message passing protocol that provides guaranteed detection of duplicate messages even when the receiver has no state stored for the sender. It also discusses how to use these messages to implement higher-level primitives such as at-most-once remote procedure calls and sequenced bytestream protocols, and describes an implementation of at-most-once RPCs using our method. Our performance measurements indicate that at-most-once RPCs can be provided at the same cost a ...

3 <u>DROL: an object-oriented programming language for distributed real-time systems</u> Kazunori Takashio, Mario Tokoro

October 1992 ACM SIGPLAN Notices, conference proceedings on Object-oriented programming systems, languages, and applications, Volume 27 Issue 10

Full text available: pdf(2.18 MB)

Additional Information: full citation, references, citings, index terms

# 4 Coordinating first-order multiparty interactions

Yuh-Jzer Joung, Scott A. Smolka

May 1994 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 16 Issue 3

Full text available: pdf(2.18 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

A first-order multiparty interaction is an abstraction mechanism that defines communication among a set of formal process roles. Actual processes participate in a first-order interaction by enroling into roles, and execution of the interaction can proceed when all roles are filled by distinct processes. As in CSP, enrolement statements can serve as guards in alternative commands. The enrolement guard-scheduling problem then ...

**Keywords**: IP, committee coordination, distributed algorithms, distributed languages, first-order interaction, interaction scheduling, multiparty interaction, rendezvous

# 5 Public-key cryptography and password protocols

Shai Halevi, Hugo Krawczyk

August 1999 ACM Transactions on Information and System Security (TISSEC), Volume 2
Issue 3

Full text available: pdf(275.84 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

We study protocols for strong authentication and key exchange in asymmetric scenarios where the authentication server possesses ~a pair of private and public keys while the client has only a weak human-memorizable password as its authentication key. We present and analyze several simple password authentication protocols in this scenario, and show that the security of these protocols can be formally proven based on standard cryptographic assumptions. Remarkably, our analysis shows optimal re ...

**Keywords:** dictionary attacks, hand-held certificates, key exchange, passwords, public passwords, public-key protocols

# 6 Local management of a global resource in a communication network

Yehuda Afek, Baruch Awerbuch, Serge Plotkin, Michael Saks January 1996 Journal of the ACM (JACM), Volume 43 Issue 1

Full text available: pdf(1.42 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

This paper introduces a new distributed data object called Resource Controller that provides an abstraction for managing the consumption of a global resource in a distributed system. Examples of resources that may be managed by such an object include; number of messages sent, number of nodes participating in the protocol, and total CPU time consumed. The Resource Controller object is accessed through a procedure that can be invoked at any node in the network. Before consuming a u ...

**Keywords**: diffusing computations, distributed computation, distributed network management, resource management

7 Agents, interactions, mobility, and systems (AIMS): A decision-theoretic approach for designing proactive communication in multi-agent teamwork

Yu Zhang, Richard A. Volz, Thomas R. loerger, John Yen

March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Full text available: pdf(334.25 KB) Additional Information: full citation, abstract, references, index terms Techniques that support effective communication during teamwork processes are of particular importance. Psychological study shows that an effective team often can anticipate information exchange among the team and communicate relevant information proactively. Proactive communication is crucial for understanding and sharing common goals and for cooperative actions. Communication can be valuable if it assists agents with new and timely information; it also has cost because it consumes network reso ... **Keywords:** agent communication, decision theory, multi-agent systems, teamwork 8 Interaction patterns and observable commitments in a multi-agent trading scenario Jeremy Pitt, Lloyd Kamara, Alexander Artikis May 2001 Proceedings of the fifth international conference on Autonomous agents Additional Information: full citation, abstract, references, citings, index Full text available: pdf(208.81 KB) terms We propose a formal semantics for the protocol diagrams (interaction patterns) of AUML (Agent Unified Modelling Language). We connect this proposal with a general framework for defining the semantics of ACLs (Agent Communication Languages). We then show that protocol diagrams should be parameterised with observable commitments: additional specification of the expected outcomes and normative positions resulting from the use of the protocol. A complete axiomatisation of a contract-net protoco ... 9 Coordinating first-order multiparty interactions Yuh-Jzer Joung, Scott A. Smolka January 1991 Proceedings of the 18th ACM SIGPLAN-SIGACT symposium on Principles of programming languages Additional Information: full citation, references, citings, index terms Full text available: pdf(1.06 MB) 10 Industrial sessions: beyond relational tables: Garlic: a new flavor of federated query processing for DB2 Vanja Josifovski, Peter Schwarz, Laura Haas, Eileen Lin June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.05 MB) terms In a large modern enterprise, information is almost inevitably distributed among several database management systems. Despite considerable attention from the research community, relatively few commercial systems have attempted to address this issue. This paper describes new technology that enables clients of IBM's DB2 Universal Database to access the data and specialized computational capabilities of a wide range of non-relational data sources. This technology, based on the Garlic prototype deve ... 11 Local and global structuring of computer mediated communication: developing linguistic perspectives on CSCW in cosmos John Bowers, John Churcher January 1988 Proceedings of the 1988 ACM conference on Computer-supported cooperative work Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.88 MB) terms This paper is concerned with the development of a language/action perspective in the

Cosmos project. We emphasize the importance of seeing cooperative work in terms of participants' communicative actions. In contrast to some explorations of speech act theory, we argue that communicative actions should be seen as essentially embedded in dialogical contexts. In particular, we attempt to show the relevance of concepts derived from the analysis of actually occurring conversations, for computer ...

## 12 Attribute propagation by message passing

Alan Demers, Anne Rogers, Frank Kenneth Zadeck

June 1985 Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments, Volume 20, 18 Issue 7, 6

Full text available: pdf(1.53 MB)

Additional Information: full citation, abstract, references, citings, index terms

The goal of our work is to use the paradigms of syntax-directed editing to perform very sophisticated semantic checking, for example, to check flow-sensitive properties such as whether a variable is necessarily defined before it is used. Semantic checking of this power is much more important than syntax checking because it relieves the programmer of the need to keep track of numerous details as the program grows in complexity. There has been a great deal of recent work on syntax- ...

## 13 Dealing with server corruption in weakly consistent replicated data systems Mike J. Spreitzer, Marvin M. Theimer, Karin Petersen, Alan J. Demers, Douglas B. Terry October 1999 Wireless Networks, Volume 5 Issue 5

Full text available: pdf(180.10 KB) Additional Information: full citation, references, index terms

# 14 Reply to Ehrad Konrad: Application of measurement theory to software metrics comments on the Bollmann-Zuse approach

Horst Zuse, Peter Bollmann-Sdorra

December 1992 ACM SIGPLAN Notices, Volume 27 Issue 12

Full text available: pdf(729.00 KB) Additional Information: full citation, abstract, index terms

This paper is the reply to the paper "Erhard Konrad: Application of Measurement Theory to Software Metrics - Comments on the Bollmann-Zuse Approach" which is also published in this issue (November 92) of SIGPLAN Notices. Konrad is criticizing our approach: "Horst Zuse; Peter Bollmann: Using Measurement Theory to Describe the Properties and Scales of Software Complexity Metrics", which was published in SIGPLAN Notices (8)89. Konrad criticized the first time our paper in SIGPLAN Notices in March 1 ...

# 15 Fighting the spam wars: A remailer approach with restrictive aliasing

Pawel Gburzynski, Jacek Maitan

February 2004 ACM Transactions on Internet Technology (TOIT), Volume 4 Issue 1

Full text available: pdf(162.34 KB) Additional Information: full citation, abstract, references, index terms

We present an effective method of eliminating unsolicited electronic mail (so-called spam) and discuss its publicly accessible prototype implementation. A subscriber to our system is able to obtain an unlimited number of aliases of his/her permanent (protected) E-Mail address to be handed out to parties willing to communicate with the subscriber. It is also possible to set up publishable aliases, which can be used by human correspondents to contact the subscriber, while being useless to h ...

Keywords: Electronic mail, privacy, spam

<sup>&</sup>lt;sup>16</sup> Practical byzantine fault tolerance and proactive recovery

Miguel Castro, Barbara Liskov

November 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 4

Full text available: pdf(1.63 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

**Keywords**: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

## 17 Privacy/anonymity: Receiver anonymity via incomparable public keys

Brent R. Waters, Edward W. Felten, Amit Sahai

October 2003 Proceedings of the 10th ACM conference on Computer and communication security

Full text available: pdf(230.49 KB) Additional Information: full citation, abstract, references, index terms

We describe a new method for protecting the anonymity of message receivers in an untrusted network. Surprisingly, existing methods fail to provide the required level of anonymity for receivers (although those methods do protect sender anonymity). Our method relies on the use of multicast, along with a novel cryptographic primitive that we call an Incomparable Public Key cryptosystem, which allows a receiver to efficiently create many anonymous "identities" for itself without divulging that these ...

Keywords: PGP, anonymity, privacy, public key cryptography

#### 18 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Full text available: pdf(5.49 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

## 19 PARLOG: parallel programming in logic

Keith Clark, Steve Gregory

January 1986 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 8 Issue 1

Full text available: pdf(3.79 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

PARLOG is a logic programming language in the sense that nearly every definition and query can be read as a sentence of predicate logic. It differs from PROLOG in incorporating parallel modes of evaluation. For reasons of efficient implementation, it distinguishes and separates and-parallel and or-parallel evaluation. PARLOG relations are divided into two types: single-solution relations and all-solutions relations. A conjunction of single-solution relation calls can be evaluated ...

# 20 Reliable communication in the presence of failures

Kenneth P. Birman, Thomas A. Joseph

January 1987 ACM Transactions on Computer Systems (TOCS), Volume 5 Issue 1

Full text available: pdf(2.62 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The design and correctness of a communication facility for a distributed computer system are reported on. The facility provides support for fault-tolerant process groups in the form of a family of reliable multicast protocols that can be used in both local- and wide-area networks. These protocols attain high levels of concurrency, while respecting applicationspecific delivery ordering constraints, and have varying cost and performance that depend on the degree of ordering ...

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